

WHAT IS CLAIMED IS:

1. A tubular graft construct, comprising:
a tubular element having walls and a lumen; and
5 said walls including juvenile submucosa tissue
from a warm-blooded vertebrate.
2. A tubular graft construct of claim 1, wherein
said juvenile submucosa tissue retains a natural,
10 intact tubular form.
3. A tubular graft construct of claim 2, wherein
said juvenile submucosa tissue is juvenile small
intestinal submucosa tissue, and wherein a surface of
15 said lumen is defined by said juvenile small intestinal
submucosa tissue.
4. A tubular graft construct of claim 1, wherein
said walls include a layer provided by said juvenile
20 submucosa tissue, and at least one additional layer.
5. A tubular graft construct of claim 4, wherein
a surface of said lumen is defined by said submucosa
tissue.
- 25 6. A tubular graft construct of claim 5, wherein
said at least one additional layer includes a collagen
layer.

7. A tubular graft construct of claim 6, wherein said collagen layer is a naturally derived collagen layer.

5 8. A tubular graft construct of claim 7, wherein said naturally derived collagen layer is an extracellular matrix layer.

9. A tubular graft construct of claim 5, wherein
10 said at least one additional layer includes a synthetic layer.

10. A tubular graft construct of claim 9, wherein said synthetic layer is comprised of a synthetic
15 polymer.

11. A tubular graft construct of claim 8, wherein said extracellular matrix layer comprises submucosa, dura mater, pericardium, serosa, peritoneum, or
20 basement membrane.

12. A tubular graft construct of claim 11, wherein said extracellular matrix layer comprises submucosa.

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13. A tubular graft construct of claim 12, wherein said submucosa is mammalian submucosa.

14. A tubular graft construct of claim 13,
30 wherein said mammalian submucosa is porcine, bovine, or ovine submucosa.

15. A tubular graft construct of claim 14,
wherein said submucosa is porcine submucosa.

5 16. A tubular graft construct of claim 15,
wherein said porcine submucosa is adult porcine
submucosa.

10 17. A tubular graft construct of claim 15,
wherein said porcine submucosa is a second layer of
juvenile porcine submucosa.

15 18. A tubular graft construct according to claim
17, wherein said second layer of juvenile porcine
submucosa constitutes an outermost layer of the
construct.

19. A tubular graft construct of claim 18,
comprising:
20 an innermost layer defining a surface of the
lumen, the innermost layer provided by juvenile small
intestinal submucosa tissue retaining a natural, intact
tubular form;
 at least one intermediate layer; and
25 an outermost layer provided by juvenile small
intestinal submucosa tissue retaining a natural, intact
tubular form.

20. A tubular graft construct of claim 19,
30 wherein said at least one intermediate layer includes a
collagenous layer.

21. A tubular graft construct of claim 20,
wherein said collagenous layer is an extracellular
matrix layer.

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22. A tubular graft construct of claim 21,
wherein said extracellular matrix layer is submucosa.

23. A tubular graft construct of claim 22,
10 wherein said submucosa is small intestinal submucosa.

24. A tubular graft construct of claim 23,
wherein said small intestinal submucosa is adult small
intestinal submucosa.

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25. A tubular graft construct of claim 24,
wherein said adult small intestinal submucosa is
porcine small intestinal submucosa.

20 26. A tubular graft construct of claim 4, wherein
said juvenile submucosa layer and at least one
additional layer are bonded to one another.

27. A tubular graft construct of claim 19,
25 wherein said innermost layer, at least one intermediate
layer, and outermost layer are bonded to one another.

28. A tubular graft construct of claim 1, wherein
said lumen has an anti-thrombogenic coating.

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29. A tissue graft composition, comprising juvenile submucosa tissue.

30. A tissue graft composition of claim 29,
5 wherein said submucosa tissue is small intestinal submucosa tissue.

31. A tissue graft composition of claim 30,
wherein said small intestinal submucosa tissue retains
10 an intact, tubular form.

32. A tissue graft composition of claim 31,
wherein said tubular form has a diameter not exceeding
about 8 mm.
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33. A tissue graft composition of claim 29,
wherein said submucosa tissue is porcine, bovine, or
ovine.

34. A method for tissue grafting in a mammal,
20 comprising grafting said mammal with a tissue graft material comprising juvenile submucosa tissue.

35. A method of claim 34, wherein said juvenile
25 submucosa tissue retains an intact, tubular form.

36. A method of claim 35, wherein said tubular
form has a diameter not exceeding about 12 mm.

37. A method of claim 34, wherein said juvenile
30 submucosa tissue is porcine, bovine, or ovine.

38. A tubular graft construct, comprising:
a tubular element having walls and a lumen;
said walls including at least a first layer formed
5 with intact tubular submucosa having a native internal
diameter no greater than about 12 mm.

39. A tubular graft construct of claim 38,
wherein said walls include at least a second layer.

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40. A tubular graft construct of claim 39,
wherein said second layer includes submucosa tissue.